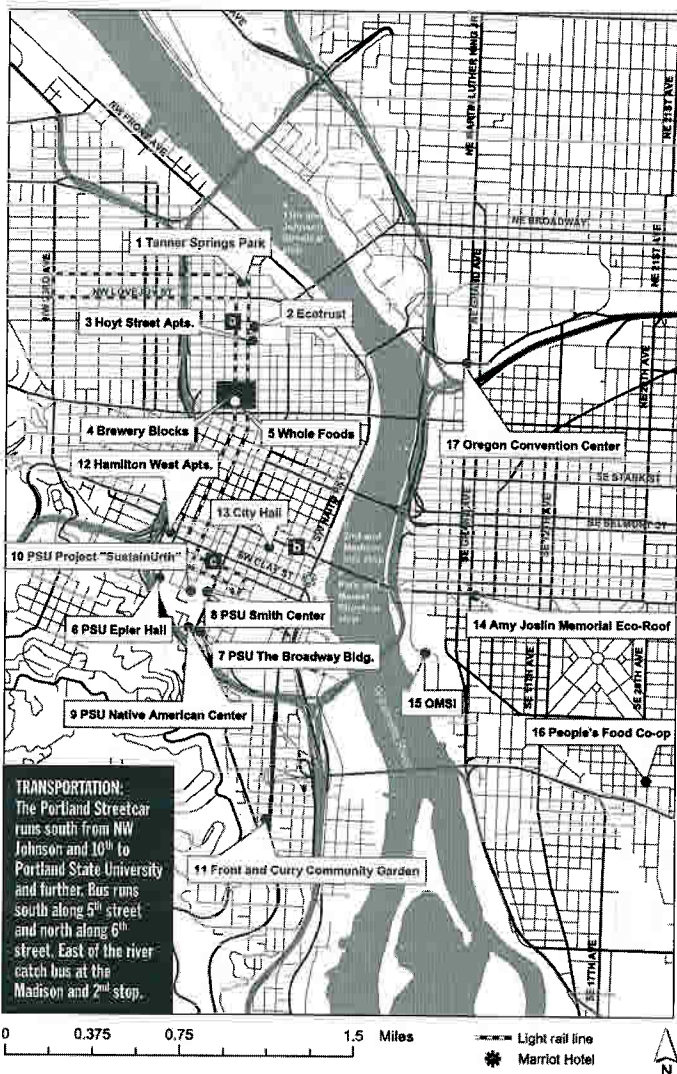


# Self-Guided Walking Tour Of Sustainable Sites In Portland



(North to South)

## 1. Tanner Springs Park

NW 10th Ave. & Northrup St. Designed by German architect/artist Herbert Dreiseitl, Tanner is an attempt to create a functioning wetland in the heart of the densest part of the city.

## 2. Jean Vollum Natural Capital Center "Ecotrust Building" (Home of the Portland Office of Sustainable Development)

721 NW 9th Ave. The 1999 LEED Gold renovation (first in country) featured 98% jobsite recycling, the addition of an ecoroof and bioswales, as well as the extensive use of salvaged building materials including lumber, flooring, doors, and paint.

## 3. Hoyt Street Apartments

Between NW 9th and 10th and Hoyt and Irving Rainwater sculpture enlivens the courtyard.

## 4. Brewery Blocks

NW 10th to 13th Ave., Burnside to Davis (does not include Powell's Books) Five-block multi-use redevelopment of historic Blitz-Weinhard Brewery and the Armory Building features ecoroofs (not accessible), low-VOC materials, chilled water plant that serves all the buildings, operable windows, daylighting, recycled content materials, Energy Star appliances, and solar photovoltaic panels visible on the face of the building that houses PF Changs. All buildings on track to be certified LEED Silver (at a minimum). Streetcar stop at NW 11th and NW Couch.

## 5. Whole Foods Grocery

1210 NW Couch **Waste reduction:** Participates in the food waste collection program. **Energy:** Whole Foods Market will become the nation's largest consumer of wind energy by purchasing credits equivalent to 100% of its estimated 2006 energy usage.

## 6. Portland State University

Stephen Epler Residence Hall  
1824 SW 12th Ave. LEED-Silver, pre-development deconstruction, visible rainwater recovery in courtyard for toilet flushing and irrigation, bioswales in sidewalk on 12th Avenue. Climate responsive design for passive heating and cooling.

## 7. Portland State University

The Broadway Building  
621 SW Jackson St. Largest eco-roof in Portland (as of 2006). Low-flow plumbing fixtures, including dual flush toilets, reduce water usage. Extra wall insulation, a condensing water heater, hot water heat recovery, and high performance window glass. Streetcar stop at SW Park and Market. Walk south 5 blocks.

## 8. Portland State University

Smith Memorial Student Union  
Corner of SW Harrison and SW Broadway  
Tour food waste composting collection area.

## 9. Portland State University

The Native American Student and Community Center

710 SW Jackson Ave. Roof garden for stormwater mitigation and building cooling, natural lighting and ventilation, sustainable wood products, locally-sourced stone and brick.

## 10. Portland State University

Project "SustainUrth" Natural Oven

Corner of SW Park and Harrison A dynamic "dialogue dome" formed by cob benches, a natural oven, an active herb garden, ecoroof, and a worm bin used by a student café.

## 11. Front and Curry Community Garden

SW Naito and Curry

Garden program has provided opportunities for the physical and social benefit of the people and neighborhoods of Portland since 1975. 30 community gardens throughout the city, developed and operated by volunteers and Portland Parks & Recreation.

## 12. Hamilton West Apartments

1212 SW Clay St. Public-private ecoroof (5,100 sq ft) demonstration and testing of soil depths and plantings.

## 13. City Hall

1221 SW Fourth Ave. Renovation of 100+ year old building in 1999 included restoration of original central core skylights, energy efficient lights, historic window upgrades, insulation, and efficient heat pumps that heat and cool the building. Makeover reduced overall energy use by 25%!

## EAST OF THE RIVER

## 14. Amy Joslin Memorial Eco-Roof at Multnomah County

501 SE Hawthorne Blvd., Fifth Floor Take the elevator to the fifth floor to see this 11,893-square foot ecoroof retrofit that evaporates about 25% of the building's rainwater runoff and reduces the air conditioning load between 5-10%. Includes an informative interpretative display. Take #6, #14, or #10 bus or walk across Hawthorne Bridge.

## 15. Oregon Museum of Science and Industry (OMSI)

1945 SE Water Ave. Greening includes parking lot bioswales and waste reduction efforts to reduce packaging in its cafeteria food, educate children to bring reusable food containers with them to OMSI, and compost its pre-consumer food waste. View the 30-square foot heated worm bin that keeps 10 dump loads of food waste out of the landfill each year. Take #33 bus, get off on Hawthorne bridge and walk south.

## 16. Oregon Convention Center

Corner of NE Lloyd and NE Martin Luther King, Jr. Blvd. The "Rain Garden" on the southwestern corner of the building, sends water runoff from 9-acre roof to a series of water basins and basal spillways where native grasses and vegetation encourage natural infiltration. Rain garden saves Convention Center about \$15,600 a year on its stormwater bill and reduces pollution of the Willamette River. Take #6 bus get off at Convention Center.

## 17. People's Food Co-op (PFC)

3029 SE 21st Ave. Expansion and remodel of 35+ year old cooperative features radiant heating and cooling, passive ventilation, solar gain, night flushing, ground source heat pumping and high efficiency natural gas combustion for backup. Also two ecoroofs, rainwater harvesting, salvaged or FSC wood, cob walls and benches, as well as low-VOC paint. Take #10 Bus get off 21st and Clinton and walk south.

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SEE ENLARGED MAP AND ADDITIONAL DETAILS ON OPPOSITE SIDE

## SUSTAINABLE PORTLAND



All traffic signals (red and greens) are energy efficient LEDs - light emitting diodes. Portland was one of the early adopters of this space age technology that saves 80% on electricity usage. The city's annual savings are about \$500K. Our cross walk signals employ solid state neon lighting, which saves about 60% of the electricity used by incandescent bulbs and provides a low maintenance signal that lasts over 20 years.

All downtown parking meters accommodate debit/credit cards, allow the patron to move their car to another location and not lose parking time already paid for..... and are SOLAR POWERED (look on the top of the parking pay stations!!).

**One percent for Art** Calls for 1.33 percent of all major construction budgets to be dedicated to art. Note the art in the City Hall, on the Portland Building, at the Max stations and bus stops.

**Flex Car.** Instead of owning a car Portlanders can become members of Flexcar and rent a car or van for a monthly fee in their neighborhood when they need it.

**TRANSPORTATION:** The Portland Streetcar runs south from NW Johnson and 10<sup>th</sup> to Portland State University and further. Bus runs south along 5<sup>th</sup> street and north along 6<sup>th</sup> street. East of the river catch bus at the Madison and 2<sup>nd</sup> stop.

## Definition Of Terms

**Bioswale:** Vegetative ditches that slow and filter the water running off roofs, parking lots and other hard surfaces. Select plants act as biofilters, removing phosphorous, soil sediments and other pollutants before they reach waterways.

**Cob:** Mixture of local clay, sand, straw and water. Traditionally used for walls in Northern Europe—think 'Tudor' cottages.

**Ecoroof:** Living, breathing vegetated roof system that consists of a layer of foliage over a growing medium on top of a synthetic, waterproof membrane. An ecoroof significantly decreases stormwater runoff, saves heating and cooling energy in building, reduces pollution and erosion, and helps preserve fish habitat. Ecoroofs also absorb carbon dioxide, cool urban heat islands, and filter air pollutants.

**Forest Stewardship Council (FSC):** International non-profit membership organization that promotes sustainable forestry practices and management through certification and chain-of-custody guarantees.

**Leadership in Energy and Environmental Design (LEED™):** A rating and certification system designed and administered by the U.S. Green Building Council that addresses water efficiency, energy performance, siting, materials, and indoor air quality.

**Volatile Organic Compounds (VOC):** Carbon-based chemicals that are emitted as gases from certain paints, adhesives, finishes, coatings, and building materials such as carpeting, wall coverings, casework, and furniture.

